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इस भाग में निम्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके ।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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CORRIGENDUM

In the Gazette of India Part III Section 2 dated 2nd June,
1984 page 357 at the top portion for "June 9", read "June 2".

(643)

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 5th July, 1984

- 477[Cal]84. Apsley metals Limited. Tyre Manufacture. (5th July, 1983).
 478[Cal]84. Trutzschler Gmbh & Co. KG. Device for separating a Fibre Band during a change of Cans.
 479[Cal]84. Complete S.p.A. Type of stitch and a process and apparatus for producing it.

The 6th July, 1984

- 480[Cal]84. The Babcock & Wilcox Company. Integrated control of output and surge for a dynamic compressor control system.
 481[Cal]84. Joaquim Antonio Fernandes Lopes. Dose measuring device/mixer of fuel, air and water for internal combustion Engines.
 482[Cal]84. Sintermetallwerk Krebsog GmbH. Sintered metal body with at least one toothing.
 483[Cal]84. SBP, Inc. Well Drilling and production fluids employing parenchymal Cell Cellulose.
 484[Cal]84. Federal-Mogul Corporation. Abrasive Cutting Wheel.

The 7th July, 1984

- 485[Cal]84. George Jay Lichtblau. Improvement in resonant Tag circuit and deactivator for use in an electronic security system.
 486[Cal]84. Metallgesellschaft Aktiengesellschaft. Apparatus for Discharging fine-grained solids.
 487[Cal]84. Theo Schrodgers. A fire-protection closing device for wall and Ceiling openings.
 488[Cal]84. AM General Corporation. Turret system for lightweight Military Vehicle.

The 9th July, 1984

- 489[Cal]84. Nippon Soda Company, Limited. Formamidoxime Derivatives.
 490[Cal]84. Trutzschler Gmbh & Co. KG. Method and device at a card for combining a card web into a fibre band.

The 10th July, 1984

- 491[Cal]84. The Babcock & Wilcox Company. Enhanced Soot-blowing System.
 492[Cal]84. Montedison S.p.A. Process for the manufacture of urea having a low steam consumption.
 493[Cal]84. Montedison S.p.A. Falling-Film apparatus for the Equicurrent Evaporation of a solution.
 494[Cal]84. Saini-Gobain Vitrage. Laminated Safety Pane.
 495[Cal]84. Saint-Bobain Vitrage. Sheet of Transparent Plastics material of good optical quality.
 496[Cal]84. Saint-Gobain Vitrage. Laminated Safety Pane.
 497[Cal]84. Verolme Botlek B. V. A method and an apparatus for shoring a ship in a dock by means of specific bilge shores.
 498[Cal]84. Beloit Corporation. Disk Screen Apparatus, disk assemblies and method.

- 499[Cal]84. Max Meier, Karl-Heinz Meier. Wooden Plate.

The 11th July, 1984

- 500[Cal]84. Oleofina s.a. Process for producing alcohols.

- 501[Cal]84. Gea Luftkuhlergesellschaft Happel Gmbh & Co. Air-Cooled surface condenser.

- 502[Cal]84. Krone Gmbh. Connector block with solderless, Non-Screwed and stripping-free terminals having a polytropic air gap for terminating communication cables and dropwire cables.

ALTERATION OF DATE

153727. (1277[Cal]80). Post dated to 15th May, 1981.

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 155F.

153693.

Int. Cl. D06c 1/00.

A PROCESS FOR THE TREATMENT OF JUTE FABRICS TO RENDER THEM FIRE RETARDANT WHEN USED AS A BARRIER FABRIC.

Applicants : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700 088, WEST BENGAL, INDIA.

Inventors : SHYAMAPADA MONDAL, AND DR. ASHIMANANDA RAY.

Application No 1382[Cal]80 filed on 12th December, 1980.

Complete specification left on 11th December, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(5 claims)

A process for treating jute fabrics to render them fire-retardant for use as barrier fabric e.g. in upholstered furniture and seat cushions comprising scouring the fabric with aqueous alkali like sodium hydroxide, thoroughly washing the so scoured fabric followed by washing with an aqueous weak acid like acetic acid to remove alkali from the scoured fabric, squeezing and washing with water again, treating the fabric

so scoured with a preparation having the following composition :

Sodium salts of boric acid 7—12 parts.
Boric acid 3—8 parts.
Diammonium hydrogen phosphate 5—7 parts.
Monosodium phosphate 3—5 parts.
Water—To make 100 parts.

all parts being parts by weight, to an add-on (weight by weight) of 18 to 25 per cent, padding the so treated fabric to give a wet add-on (weight by weight) of 150 per cent and then drying it.

(Provisional specification 10 pages. Provisional drawings 1 sheet).

(Complete specification 15 pages.

CLASS 32F₃(b).

153694.

Int. Cl. C07c 65/16.

PROCESS FOR PRODUCING 2-HYDROXYNAPHTHALENE-3-CARBOXYLIC ACID.

Applicants : SUMITOMO CHEMICAL COMPANY, LIMITED, NO. 15, KITAHAMA 5-CHOME, HIGASHI-KU, OSAKA-SHI, OSAKA.

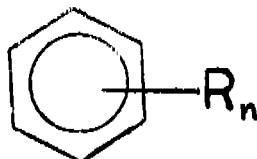
Inventors : YUZO MAEGAWA, FUJIO MASUKO AND MAKOTO NAKAMURA.

Application No. 1432/Cal/80 filed on 26th December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(15 claims)

An improved process for producing 2-hydroxynaphthalene-3-carboxylic acid characterised in that it comprises (a) contacting carbon dioxide with a homogeneous liquid mixture comprising an alkali metal salt of β -naphthol, β -naphthol and an alkylbenzene of the formula (i) shown in the accompanying drawings,



Formula—I

wherein R is the same or different and is a straight or branched alkyl group having 1 to 4 carbon atoms and n is an integer of 1 to 6, and (b) isolating in a known manner from the reaction product 2-hydroxynaphthalene-3-carboxylic acid.

(Complete specification 24 pages. Drawing 1 sheet).

CLASS : 40F & I.

153695.

Int. Cl. B01i 1/00; G01n 1/00, 9/00.

AN APPARATUS FOR DETERMINING THE ASH CONTENT IN A COAL SAMPLE.

Applicants : THE FERTILIZER (PLANNING & DEVELOPMENT) INDIA LTD., OF P.O. SINDRI, DIST. DHANBAD, BIHAR, PIN 828122, INDIA.

Inventors : DR. SUSHIL KUMAR DAS, AMARESH CHATTOPADHYAY, KESTO CHANDRA BANERJEE, DR. PRADIP KUMAR GHOSH AND DR. RAMESH BHATTACHARYA.

Application No. 3/Cal/81 filed January 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(10 claims)

An apparatus for determining the ash content in a coal sample comprising support means for supporting a layer coal sample on same, said support means when desired having means for imparting forward movement to the support means, a pair of sources a first source and a second source in vertical axial alignment with one another and disposed one on above the said support means and the other below the said support means at pre-determined location, said first source being capable of providing a beam of suitable frequency across said coal sample, said second source being a probe and capable of detecting a beam passing through said coal sample and falling on the same, said second source having in association thereof, a calibrated display panel to show measure of ash-content.

(Complete specification 8 pages. Drawing 1 sheet).

CLASS : 108B₂(a).

153696.

Int. Cl. C21b 9/10.

HEAT EXCHANGER FOR COOLING THE WALL AND THE REFRACTORY OF A BLAST FURNACE.

Applicant & Inventor : FRANCOIS TOUZE, OF CHATEAU DE LOGNE, 57310 GUENANGE, FRANCE.

Application No. 114/Cal/81 filed January 31, 1981.

Appropriate office for opposition proceedings (Rule Patents Rules, 1972) Patent Office, Calcutta.

(27 claims)

A heat exchanger comprising a body shaped substantially as a cylindrical body and having a first side wall, a second side wall and a curved wall extending therebetween, said side walls and said curved wall defining a substantially cylindrical inner chamber, at least the first side wall being made of a heat conducting material, a supply pipe for supplying a cooling heat transfer fluid to and a discharge pipe for discharging heated fluid from said body and communicating with said inner chamber through a supply port and a discharge port respectively, wherein the supply port and the discharge port have an axis substantially parallel to a tangent to the curved wall, and at least the curved wall has a substantially smooth inner surface without projecting obstacles, such an arrangement being capable to impart a free rotational motion to the heat transfer fluid in the inner chamber from the supply port up to the discharge port.

(Specification 35 pages. Drawings 7 sheets).

CLASS : 92J.

153697.

Int. Cl. A231 1/18.

A MACHINE FOR MAKING PUFFED-RICE

Applicant & Inventor : SUBRATA DAS, C/O. GOBINDA LAL DAS, P. O. & VILL. KANCIANNAGAR, DIST. BURDWAN, WEST BENGAL, INDIA.

Application No. 252/Cal/81 filed March 9, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(2 claims)

(1) A machine for making puffed-rice, comprising in combination of :

(i) at least two drum shaped chambers, one of which called roasting chamber being perforated, nigger and fitted internally with some vanes; the other, called puffing chamber being some what conical in shape, containing sand and screw-conveyer cum separator.

- (ii) means for revolving the drums.
 - (iii) arrangement for heating the drums.
 - (iv) a lever which is adjustable to open the window on the lid of the roasting chamber, allowing the rice, inside it, to come out in small amount at every revolution.
 - (v) a channel through which, rice, coking from the roasting chamber can enter the puffing chamber.
 - (vi) a frame on which the chambers are mounted in an inclined position, the roasting chamber being at a higher level.
 - (vii) a heat-insulating enclosure enclosing the chambers and the heat-source to reduce the loss of heat.
- (Specification 5 pages. Drawing 1 sheet).

CLASS : 4A.

153698.

Int. Cl. B64c 27/04, 27/46.

IMPROVED BLADE FOR HELICOPTER ROTOR

Applicant : SOCIETE ANONYME DITE : SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, OF 37, BOULVARD DE MONTMORENCY, 75016, PARIS, FRANCE.

Inventor : RENE LOUIS MOUILLE, JACQUES RENE GALLOT AND JEAN-MARC EMILE POURADIER.

Application No. 270/Cal/81 filed March 12, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(8 claims)

An improved blade for helicopter rotor, comprising an end profile disposed perpendicularly to the leading edge of the blade and a root profile placed between said end profile and the fastenings of the blade to the hub of the rotor, said end profile and said root profile defining along the major part of the span of the blade an aerodynamic surface produced by profiles of substantially constant chord and each presenting, on the one hand, a radius of maximum curvature R_0 at the leading edge defined approximately by the expression $MoR_0 = 1.7 C \cdot e_{max}^2$ in which C represents the chord and e_{max} the maximum relative thickness of the profile in question, on the other hand, a point of minimum curvature positioned on the lower surface at a distance from the leading edge approximately equal to 20 per cent of the length of the chord of said profile, said profile of said aerodynamic surface furthermore having, from the end profile and towards the root profile, an aerodynamic twist increasing linearly and substantially up to the section of blade where said root profile is defined, said twist then being reversed to become zero at the fastenings of the blade, characterised in that the angle of twist formed by the zero lift chord of a profile of said aerodynamic surface and a plane of reference passing through the centre of the fastenings of the blade to the hub of the rotor is, for the end profile, at the most equal to 0.3 degrees.

(Specifications 16 pages. Drawings 2 sheets).

CLASS : 129 E & G.

153699.

Int. Cl. B21k 1/18.

A METHOD OF MANUFACTURING A PISTON FOR USE IN HEAVY-DUTY INTERNAL COMBUSTION ENGINES.

Applicant : DANA CORPORATION, OF 4500 DORR STREET, TOLEDO, OHIO, UNITED STATES OF AMERICA.

Inventors : DAVID TA-MING YEE AND ALBERT GEORGE MOSHER.

Application No. 308/Cal/81 filed March 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(5 claims)

A method of manufacturing a piston for use in heavy-duty internal combustion engines, comprising the steps of :

- (a) placing a ferrous insert, namely a piston ring insert of a high nickel cast iron, into a mold cavity,
- (b) pouring a molten aluminum alloy into said cavity.
- (c) applying pressure to said molten alloy until said alloy becomes solidified, and
- (d) removing resulting casting from said mold cavity.

(Specification 5 pages. Drawing 1 sheet).

CLASS : 40F & 56G.

153700.

Int. Cl. B01d 3/00.

IMPROVEMENT IN A PROCESS FOR THE DISTILLATIVE SEPARATION OF CARBON DIOXIDE FROM HYDROGEN SULFIDE.

Applicants : HELIX TECHNOLOGY CORPORATION, OF 266 SECOND AVENUE, WALTHAM, MASSACHUSETTS 02154, U.S.A.

Inventors : ARTHUR SHERWOOD HOLMES AND JAMES MCKEE RYAN.

Application No. 424/Cal/81 filed April 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(4 claims)

An improved method for the separation of carbon dioxide from hydrogen sulfide in a distillation column, the improvement of adding an agent for raising the relative volatility of carbon dioxide to hydrogen sulfide to said column at a point above the feed said agent comprising a C_3-C_6 alkane, a mixture of C_3-C_6 alkanes, SO_2 or S_2O_2 .

(Complete specification 13 pages. Drawings 4 sheets).

CLASS 32F₂(A).

153701.

Int. Cl. C07c 79/10.

WATER REMOVAL IN NITRATION OF AROMATIC HYDROCARBONS.

Applicants : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : ROBERT MCCALL.

Application No. 428/Cal/81 filed April 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(6 claims)

An improved process for the continuous nitration of an aromatic hydrocarbon by reacting said aromatic hydrocarbon mass with mixed acid characterized by the improvement that the said reaction is carried out in presence of an inert gaseous medium said gaseous medium being a free-flowing gaseous stream so that the water evolved during reaction is carried by said gaseous stream thereby humidifying same.

(Specification 7 pages. Drawings 1 sheet).

CLASS : 123.

153702.

(8 claims)

Int. Cl. C05b 7/00.

CONTINUOUS TWO-STAGE PROCESS FOR THE PRODUCTION OF SOLID PRODUCTS IN THE FORM OF GRANULATED SOLID PARTICLES.

Applicants : GENERALE DES ENGRAIS S.A., OF 47, RUE DE VILLIERS, 92527 NEUILLY SUR SEINE, FRANCE.

Inventor : PHILIPPE MORAILLON.

Application No. 467/Cal/81 filed May 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(19 claims)

A continuous two-stage process for the production of solid products in the form of granulated solid particles, in particular NP/NPK fertilisers containing ammonium phosphate, in which recycled dried product, liquid and solid materials as hereindescribed are introduced into a mixing zone, the resulting mixture, which contains wet solid product, is passed into a drying zone through which passes a stream of hot gas, which dries the wet product, characterized in that an acid liquid and an ammonical fluid of the types described herein are simultaneously introduced into a confined and elongated reaction zone opening directly into the drying zone as herein-described so that a jet of a reaction mixture comprising slurry and water vapour is produced in the reaction zone and projected onto the wet solid product entering the drying zone, and the dried product is collected at the outlet of the drying zone.

(Specification 34 pages. Drawing 1 sheet).

CLASS : 63F.

153703.

Int. Cl. H02p 3/08.

A DEVICE FOR CONTROL OF THE ELECTRICAL BRAKING, FOR A DIRECT CURRENT MOTOR.

Applicant : SOCIETE CEM-COMPAGNIE ELECTRO-MECANIQUE & CI E-S.N.C., OF 37 RUE DUE ROCHER, 75383 PARIS, CEDEX 08, FRANCE.

Inventor : N'GUYEN UYEN THUY.

Application No. 534/Cal/81 filed May 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(7 claims)

A device for control of the electrical braking for a direct-current motor of the type in which the inductor and a vibrating contactor are connected in parallel to the armature between the armature and the load characterised in that it comprises a controlled shunting device connected in parallel to the inductor, for controlling electrical rheostatic and/or regenerative braking.

Specn. 11 pages.

Drgs. 2 sheets.

CLASS : 63F & I.

153704.

Int. Cl. H02p 5/00, 7/00.

DIRECT-CURRENT ELECTRIC TRACTION DEVICE.

Applicant : SOCIETE CEM-COMPAGNIE ELECTRO-MECANIQUE & CIE-S.N.C., OF 37 RUE DUE ROCHER, 75383 PARIS, CEDEX 08, FRANCE.

Inventor : N'GUYEN UYEN THUY.

Application No. 535/Cal/81 filed May 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

A direct-current electric traction device which has at least one motor whose field winding is connected in series with the armature and, optionally, with a smoothing induction coil and the feeding of which is controlled by a direct current to direct current converter of the chopper type the inductor having in addition a shunting device reducing excitation, while a free running diode is connected in parallel with the motor and the smoothing induction coil, characterised in that the field winding is divided into at least two partial windings which are connected in series in order to produce additive fluxes, and of which only one is provided with the shunting device.

Specn 12 pages.

Drg. 1 sheet.

CLASS : 119D

153705.

Int. Cl. D03d 47/00.

RAPIER LOOMS AND RAPIER HEADS THEREFOR.

Applicant : MACART TEXTILES (MACHINERY) LIMITED, OF LAYCOCKS MILL, 162/172 THORNTON ROAD, BRADFORD, WEST YORKSHIRE, ENGLAND.

Inventor : BRIAN MARSHALL.

Application No. 562/Cal/81 filed May 27, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(16 claims)

A rapier loom having at least one tape driven rapier head, the loom having means to guide the tape through the shed, the guide means comprising a plurality of guide unite, each guide unit having at least one guide finger arrangeable to project through the warp threads to contact and guide the tape, and the guide unite being movable in the direction of rapier, movement, for adjustment purposes.

Specn. 12 pages.

Drgs. 3 sheets.

CLASS : 195C.

153706.

Int. Cl. F16k 7/16.

DIAPHRAGM VALVE.

Applicant : WATERFIELD ENGINEERING LIMITED, OF 71 KINGSWAY, CHANDLER'S FORD, HAMPSHIRE, SO5 1FH ENGLAND.

Inventor : TIMOTHY OTTIWELL WYKEHAM WATERFIELD.

Application No. 616/Cal/81 filed June 8, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(18 claims)

A diaphragm valve comprising a body traversed by a fluid passageway and having an opening in communication with the fluid passageway, a diaphragm for controlling fluid flow through the passageway and extending across the opening, and a bonnet bolted to the body with the peripheral portion of the diaphragm clamped between the body and bonnet, the body being provided around the opening with a diaphragm support face formed by two flat surfaces which are inclined relative to each other so as to be divergent in the direction of the opening, and bonnet being provided with a diaphragm clamping face comprising two flat surfaces which are inclined relative to each other so as to converge at the bottom end of the bonnet, the valve being characterised in that the bonnet is formed with holes while the body has complementary open-sided lugs to receive the securing bolts, the diaphragm being recessed in the regions of the securing bolts.

Comp. Specn. 16 pages.

Drgs. 6 sheets.

CLASS : 67C.

153707.

Int. Cl. G01d 5/00.

TELEMETERING SYSTEM FOR TRANSMITTING AND RECEIVING DATE FROM ROTATING OBJECTS.

Applicant : RYAZANSKY RADIOTEKHNIЧЕСKY INSTITUT, OF RYAZAN, ULITSА GAGARINA, 59/1, U.S.S.R.

Inventor : VYACHESLAV RASHIDOVICH BASHIROV, VIKTOR VLADIMIROVICH KARASEV, VYACHESLAV RODIONOVICH LYCHAGIN, JURY VLADIMIROVICH MANUKIAN, ANATOLY ALEXANDROVICH MIKHEEV & GENNADY IVANOVICH NECHAEV.

Application No. 658/Cal/81 filed June 18, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(1 claim)

A telemetering system for transmitting and receiving date from rotating objects comprising a transmitting unit arranged on a rotating object, an air-core transformer with two pairs of coils having a moving coil thereof disposed on said rotating object, and a receiving unit connected with stationary coils of the air-core transformer, characterized in that its transmitting unit includes a switch for channels from which date are transmitted, a transmitted data converter coupled to said switch and connected through an output unit to one moving coil of the air-core transformer, a clock-pulse generator connected to the input of a frequency changer coupled through a timer to the channel switch, and a command decoder, the inputs of which are connected to the outputs of the clock-pulse generator, the frequency changer and the timer and whose outputs the data converter and to the channel switch, while the receiving unit incorporates a received signal regenerator coupled to a respective stationary coil of the air-core transformer, a pulse converter connected to the regenerator output, a clock-pulse generator connected to a command encoder through a first distributor unit and to the input of the frequency changer whose output is connected with the other stationary coil of the air-core transformer through a phase modulator and the output unit, a command generating unit, the inputs of which are connected to the output of the clock-pulse generator and to the output of the pulse converter and whose outputs are coupled to the frequency changer, to the command encoder and via a second distributor unit to a unit used to distribute and restore signals corresponding to the information being conveyed, the outputs of the second distributor unit connected to the input of the command generating unit and to the inputs of the command encoder.

Specn. 14 pages.

Drgs. 1 sheet.

CLASS : 85K.

153708.

Int. Cl. F27b 15/02, 15/08.

FUEL FEED SYSTEM FOR A FLUIDIZED BED OF GRANULATED SOLID FUEL.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : EDWARD ADOLPH ZIELINSKI.

Application No. 792/Cal/81 filed July 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(5 claims)

A fuel feed system for a fluidized bed of granulated solid fuel, comprising : a support structure horizontally extended and perforated and arranged beneath a bed of granulated solid fuel, a bed of granulated solid fuel, a bed of granulated solid fuel extend over the upper side of the support structure while being combusted, a source of combustion air connected to the under side of the support structure with the arrangement to flow the combustion air up through the perforations of the support structure at a rate and quantity which will

expand the bed while it is combusting, characterised by that : a fuel pipe is mounted to extend up through the perforated structure and terminate a predetermined distance, above the perforated structure and within the expanded and combusting bed, a source of fluid-entrained granulated solid fuel connection to the fuel pipe below the support structure flow the fuel upward and discharge from the upper end of the fuel pipe, a cap structure supported above the upper end of the fuel pipe and horizontally extended to provide its under surface as a diverter of the entraining fluid and granulated fuel to be thereby radially distributed through the expanded bed, and a sub-structure supported about the upper outlet of the fuel pipe and spaced from the under side surface of the cap to form a passage for the fuel and entraining fluid which will create a predetermined lowered pressure in the stream downstream of the passage.

Specn. 13 pages.

Drgs. 1 sheet.

CLASS : 39K & 88D.

153709.

Int. Cl. C10j 1/00, C01b 31/20.

AN IMPROVED METHOD AND AN APPARATUS FOR CONVERTING TO CARBON DIOXIDE AT LEAST A PORTION OF THE CARBON MONOXIDE IN A CARBON MONOXIDE CONTAINING GAS.

Applicant : LINDE AKTIENGESellschaft OF ABRAHAM-LINCOLN-STRASSE 21, D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY.

Inventor : PHILIP STEAD AND HANS JUNGFER.

Application No. 817/Cal/81 filed July 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(11 claims)

An improved method for converting to carbon dioxide at least a portion of the carbon monoxide contained in a carbon monoxide-containing gas maintained at a predetermined pressure in the presence of steam, comprising the steps of supplying said carbon monoxide-containing gas along with an excess of steam at said predetermined pressure to a catalyzed conversion zone so as to produce at elevated temperature a product stream containing carbon dioxide, hydrogen and steam therefrom, with drawing said product stream from said catalyzed conversion zone at said elevated temperature, cooling said product stream withdrawn from said catalyzed conversion zone by heat exchange means so as to produce a condensate therefrom, characterised in that at least a portion of said steam to be supplied with said carbon monoxide-containing gas to said catalyzed conversion zone is produced by evaporation of said condensate.

Specn. 16 pages.

Drgs. 3 sheets.

CLASS : 68E1 & 206E.

153710.

Int. Cl. H03f 3/00, G05f 1/00.

FREE-SWITCHING CHOPPER CIRCUIT.

Applicant : SOCIETE CEM-COMPAGNIE ELECTRO-MACANIQUE ET CIE-S.N.C., OF 37, RUE DU ROCHER, 75383 PARIS, CEDEX 08, FRANCE.

Inventor : N'GUYEN UYEN THUY.

Application No. 866/Cal/81 filed August 1, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(4 claims)

A free-switching chopper circuit for supplying a load from a direct current source, of the type comprising a main thyristor with antiparallel return diode, a series resonant circuit connected in parallel to the load as switching circuit, and a free-running diode in parallel to the load, characterised in that the free-running diode (3) is connected in parallel to

the capacitor (5) of the series resonant circuit and in series with the induction coil (4) of the said resonant circuit, in such a manner that the said induction coil (4) is the only one in the circuit and serves both as switching induction coil in the resonant circuit (4, 5) and as induction coil limiting current variations in the said main thyristor (1).

Specn. 14 pages.

Drgs. 4 sheets.

CLASS : 94G.

153711.

Int. Cl. F23k 3/00.

AN APPARATUS FOR FEEDING PARTICULATE MATERIAL INTO A HIGH PRESSURE ZONE.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : DONALD ARTHUR SMITH, & BRUCE MACNEIL POTE.

Application No. 895/Cal/81 filed August 11, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(12 claims)

An apparatus for feeding a particulate material into a pressurized zone comprising : a stationary hollow cylinder having a bore; a frustoconical reducing nozzle located at a discharge end of said cylinder; means for feeding the granular material into said cylinder at an upstream location of said cylinder; a rotary feeder screw concentrically located within said cylinder and having helical flights thereon, said flights having a decreasing pitch towards the discharge end; means for rotating said feed screw at high speeds; said flights having an OD only slightly less than said bore through a majority of the length of said feed screw and having a tapered decreasing OD at the discharge end, the taper being at least as great as that of said nozzle; said feed screw being located within said cylinder such that the radial clearance between the nozzle bore and the tapered flights is significantly greater than that between the bore of the cylinder and the flights through the majority of length, and the tapered flight extending through only a portion of said nozzle; and a columnar plug rotating with said screw and concentrically located with said nozzle.

Specn. 10 pages.

Drgs. 1 sheet.

CLASS : 85Q.

153712.

Int. Cl. F27, 3/06.

ROTARY HEARTH FURNACE PLANT.

Applicant : METALLGESELLSCHAFT A.G., OF 16, FRANKFURT A.M., REUTERWEG, WEST GERMANY.

Inventor : HANS JURGEN WEISS.

Application No. 1335/Cal/81 filed November 26, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(6 claims)

A rotary hearth furnace plant for heating granular high-carbon solids, comprising an approximately funnel-shaped hearth, which rotates on a vertical axis and has a central outlet, which is disposed over a rotary table, on which the heated solids are moved by means of blades to an exit, characterized in that the outlet of the rotary hearth furnace is disposed over the radially outer portion of the rotary table, which has raised rim and an exit disposed at the center of the table.

Specn. 7 pages.

Drgs. 1 sheet.

CLASS : 62D & 74.

153713.

Int. Cl. D06c 1/00.

METHOD FOR PRODUCING TEXTILE FABRICS FROM YARNS AND THE FABRIC OBTAINED BY APPLYING THIS METHOD.

Applicant : HOLLANDSE SIGNAALAPPARATEN B.V., ZUIDELIJKE HAVENWEG 40, 7530-GD HENGEL, THE NETHERLANDS.

Inventor : JACOBUS MAURITS VAN DORT.

Application No. 1231/Cal/79 filed November 24, 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(6 claims)

Method for producing textile fabrics from yarns as having defined at least part of which yarns exhibit potential fibre-spreading properties, characterized in that a fabric is obtained wherein the number of warp and weft threads per unit area is so small that on the one hand an optimal fibre spreading is obtainable, the fibre spreading properties of the yarns are activated by removing the adhesive used for the fibre bonding in the yarn by means of a suitable solvent as, and that after obtaining the desired fibre spreading the fibre bonding, partially lost through the activation, is at least partially restored.

Specn. 12 pages.

Drgs. 5 sheets.

CLASS : 151B.

153714.

Int. Cl. F23j 3/00.

A STRUCTURE FOR INSERTING A FLUID LANCE WITHIN A FURNACE.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : ROBERT PATTON SULLIVAN AND CLYDE LEWIS JACOBS.

Application No. 64/Cal/80 filed January 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

(6 claims)

A structure for inserting a fluid lance within a furnace and delivering fluid onto the internal wall of the furnace to remove foreign matter from the wall, including, a furnace wall with an opening which provides access to the internal side of the wall from the outside of the wall of the furnace, characterised by that an elongated frame is mounted by one end over the wall opening and extended normal to the plane of the wall, a lance in the form of an elongated conduit mounted within the frame capable of a reciprocating movement within a range and from which range the lance extends one of its ends into the furnace interior through the opening, a nozzle mounted on the first end of the lance which is inserted into the interior of the furnace and onto the interior wall to remove foreign matter accumulated thereon, a feed tube extended into the second end of the lance within the frame to conduct cleaning fluid into the lance so it will exit through the nozzles on the first end of the lance, a valve in the feed tube to control the flow of cleaning fluid in the feed tube characterized in a motive means mounted in stationary relationship to the frame, a linkage means between the motive means and the lance to rotate the lance by the motive means, a section of the lance provided with external spiral groove a yoke projection mounted on the frame and extended into engagement with the spiral grooves which arrangement causes reciprocation of the connected lance over its range when the lance is rotated by the motive means and actuating linkage connected to the fluid valve and extended to the forward end of the range of the lance reciprocation in the arrangement whereby the lance contacts the linkage and actuates the valve to flow steam through the feed tube and into the lance when the nozzles of the lance are positioned within the furnace interior.

Specn. 15 pages.

Drgs. 1 sheet.

CLASS : 116A & 157C.

153715.

Int. Cl. B61b 3/00, 7/00.

AERIAL CABLEWAY FOR TRANSPORTING A PLURALITY OF LOAD CARRIERS ALONG AN ENDLESS CONVEYING RUN.

Applicant : CIE. MINIERE DE L'OGOOUE (COMILOG) OF 195, AV. CHARLES DE GAULLE 92 NEUILLY-SUR-SEINE, FRANCE.

Inventor : HENRI GAUDET.

Application No. 220/Cal/80 filed February 26, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 claims

Aerial cableway having a towing cable transporting a plurality of load carriers along an endless conveying run which extends between two stations, starting a cable drive sheave located in one of said stations named starting station, a cable return sheave located in the other of said stations named arrival station a stabilization device for stabilizing the speed of rotation of said return sheave, said stabilization device comprising an electric machine mechanically connected to said return sheave for driving or breaking the return sheave, means for producing a first electric signal corresponding to the speed of the return sheave, speed selector means for producing a second electric signal corresponding to the selected speed, a control unit for controlling said electric machine, a comparator receiving said first and second electric signals and producing an electric signal applied to said control unit for controlling said electric machine so as to brake the return sheave when said first signal is greater than said second signal and to drive the return sheave when said second signal is greater than said first signal.

Specn. 8 pages.

Drgs. 1 sheet.

CLASS : 9F.

153716.

Int. Cl. C22c 39/00.

METHOD FOR TREATING MOLTEN STEEL AND APPARATUS THEREFOR.

Applicant : KOBE STEEL LTD., OF 3-18, I-CHOME, WAKINOHAMA-CHO, FUKUOKA-KU, KOBE-CITY, JAPAN.

Inventor : KUCHI NARITA, TAKASUKE MORI, KENZO AYATA AND TAKEHISA MAKINO.

Application No. 455/Cal/80 filed April 19, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 claims

A method for treating molten steel utilizing a linear motor, a ladle, a treating vessel and at least one passage pipe interconnecting said ladle and said treating vessel, which comprises : lifting up a part of said molten steel from said ladle to said treating vessel disposed over said ladle for degassing and/or adjustment of molten steel composition in said treating vessel; thereafter returning said molten steel to said ladle through said at least one passage pipe; circulating or reciprocating said molten steel between said ladle and said treating vessel while heating said molten steel by said linear motor disposed around said at least one passage pipe and; operating said linear motor at a frequency of 50 to 60 cycles.

Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 32B.

153717.

Int. Cl. C07c 5/24, 15/08.

PROCESS FOR XYLENE ISOMERIZATION.

Applicants : MOBIL OIL CORPORATION, OF 150 EAST 42ND STREET, CITY AND STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : ROGER ALLAN MORRISON AND SAMUEL ALLEN TABAK.

Application No. 646/Cal/80 filed on May 31, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 claims

A process for isomerizing the xylene content of a charge mixture of eight-carbon atom aromatic hydrocarbon compounds which mixture contains xylene and ethylbenzene which comprises contacting the charge with a catalyst comprising a zeolite having a silica/alumina mole ratio greater than 12 and a constraint index of 1 to 12, characterized in that the charge is contacted with the catalyst at a temperature of 371 to 427°C (700 to 800°F) under at least atmospheric pressure and that prior to such contact the zeolite has been steamed at least 371°C (700°F) for at least one hour such that the steamed zeolite in order to achieve the same degree of ethylbenzene conversion as that achieved by the unsteamed zeolite, requires an increased reaction temperature relative to that required by the unsteamed zeolite, of at least 28°C (50°F).

Specn. 21 pages.

Drgs. 1 sheet.

CLASS : 32B.

153718.

Int. Cl. C07c 1/02.

PROCESS FOR THE PREPARATION OF A HYDRO-CARBON MIXTURE.

Applicants : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT-LAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : LAMBERT SCHAPER AND SWAN TIONG SIE.

Application No. 756/Cal/80 filed on July 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

A process for the preparation of a hydrocarbon mixture of the type described, characterized in that a mixture of carbon monoxide and hydrogen with an H_2/CO molar ratio of less than 1.0 is contacted in a first step with a trifunctional catalyst combination containing one or more conventional metal catalyst with catalytic activity for the conversion of an H_2/CO mixture into acyclic hydrocarbons and/or acyclic oxygen-containing hydrocarbons, one or more conventional metal catalyst with catalytic activity for the conversion of an H_2O/CO mixture into an H_2/CO_2 mixture and a crystalline silicate, which silicate may be prepared as described herein and which silicate has the following properties :

- an X-ray powder diffraction pattern showing, inter-alia, the reflections given in Table A mentioned hereinbefore;
- in the formula which represents the composition of the silicate, expressed in moles of the oxides as described herein, and in which, in addition to oxides of.....

hydrogen, alkali metal and/or alkaline-earth metal and silicon, there is present one or more oxides of a trivalent metal A selected from the group formed by aluminium, iron, gallium, rhodium, chromium, and scandium, the Al_2O_3/SiO_2 molar ratio (m) is less than 0.1, and in that at least the C_3 - fraction of

the reaction product from the first step is contacted in a second step with a catalyst containing one or more metal components with catalytic activity for the conversion of an H_2/CO mixture into acyclic hydrocarbons, which metal components have been selected from the group formed by cobalt, nickel and ruthenium, on the understanding that if the feed for the second step has an H_2/CO molar ratio of less than 1.5, water is added to this feed and that in the second step a bifunctional catalyst combination is used, which contains, in addition to the metal components with catalytic activity for the conversion of an H_2/CO mixture into acyclic hydrocarbons, also one or more conventional catalyst with catalytic activity for the conversion of an H_2/CO mixture into an H_2/CO_2 mixture.

Specn. 37 pages.

Drgs. Nil.

CLASS : 86B.

153719.

Int. Cl. A47c 27/00.

MATTRESSES.

Applicant & Inventor : JOHN KIRKPATRICK PATERSON, OF "MARINERS", ALWALTON, NR. PETERBOROUGH, CAMBRIDGESHIRE, ENGLAND.

Application No. 766/Cal/80 filed July 3, 1980.

Convention date 23rd July, 1979 (25575/79) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 claims

A mattress having a plurality of fluid-tight envelopes each enclosing a cellular structure, the volume of each cell being relatively large (as hereinbefore defined) and adjacent cells in each envelope communicating with each other by means of perforations in the cell walls, which perforations permit a limited rate of flow of fluid between the cells in each envelope, the envelopes not being in fluid communication with one another.

Specn. 5 pages.

Drgs. Nil.

CLASS : 129B & G, 153 & 178.

153720.

Int. Cl. B21c 1/00, B24d 7/00, B23p 5/00; B01j 17/00.

AN IMPROVED PROCESS OR PREPARING A COMPACT.

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : HAROLD PAUL BOVENKERK AND ROBERT CHARLES DEVRIES.

Application No. 835/Cal/80 filed July 22, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

An improved process for preparing a compact which comprises :

- (A) subjecting an abrasive selected from the group consisting of diamond, cubic boron nitride and mixtures thereof consisting of particles having a largest dimension of at least one millimeter to the following conditions :
 - (i) to a pressure of at least 45 Kbar at a temperature of at least 1300°C and within the stable region of the said particles;
 - (ii) a reaction time of 2 to 60 minutes;
- (B) recovering the compact product, characterized by embedding one or more single crystal diamonds in the mass of abrasive particles prior to the application of high pressure and temperature conditions in Step (A).

Specn. 17 pages.

Drgs. 3 sheets.

2—187GI/84

CLASS : 32F₂(a).

153721.

Int. Cl. C07c 109/00.

A STABILIZED COMPOSITION OF AN ORGANIC MATERIAL.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : DR. WOLFGANG von GENTZKOW AND DR. ROLAND RÜBNER.

Application No. 868/Cal/80 filed July 29, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims.

A stabilized composition of an organic material such as herein described comprising :

- (a) the organic material which contains copper or copper ions or is in contact with copper or copper ions, or is intended to contain or be in contact with copper or copper ions; and
- (b) a metal deactivating amount of N, N'-bis-salicyloyl hydrazine obtained by reacting a salicylic acid alkyl ester with hydrazine or a salicylic acid hydrazide, particularly in combination with oligomeric 2, 2, 4-trimethyl-1, 2-dihydroquinoline as oxidation inhibitors.

Specn. 10 pages.

Drg. Nil.

CLASS : 100.

153722.

Int. Cl. F25b 7/00.

A RECIPROCATORY MACHINE HAVING A PAIR OF OPPOSED PISTONS.

Applicant : HAMWORTHY ENGINEERING LIMITED, OF FLEETS CORNER, POOLE, DORSET, BH17 7LA, ENGLAND.

Inventor : JOHN EDWIN LAWRENCE ATKINS.

Application No. 1090/Cal/80 filed September 26, 1980.

Convention date 26th September, 1979 (33308/79) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

A reciprocatory machine which comprises a pair of opposed pistons rigidly connected to one another by a yoke, each piston being able to reciprocate within a cylinder, and a crank drive connected to the yoke, the pistons being separate from the yoke and fastened to the yoke, which yoke is an open frame structure with spaced sides in which are openings, and in which the crankshaft extends through the openings of the yoke sides and is journaled in bearing at both ends, and the crank drive includes at least one balance weight placed within the yoke.

Specn. 11 pages.

Drgs. 3 sheets.

CLASS : 44.

153723.

Int. Cl. G04c 21/00.

DISPLAY DEVICE.

Applicant : HITACHI LTD., OF 5-1, MARUNOUCHI CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : AKIO KUMADA.

Application No. 1174/Cal/80 filed October 15, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

A display device having a transparent cover serving as a vibrator of a sound generator, said transparent cover having a transparent piezoelectric element coated with transparent electrodes on both surfaces thereof, bonded to an inner surface of said transparent cover by transparent adhesive material, said transparent cover being arranged in front of a display panel of said display device, characterized in that each of said transparent electrodes has a thickness in the range of 75 nm to 125 nm which correspond to one quarter of the wave-length of the near ultraviolet light from 300 nm to 500 nm so as to be used as anti-reflection film for the near ultraviolet light.

Specfn. 29 pages.

Drgs. 2 sheets.

CLASS : 35C.

153724.

Int. Cl. C04b 19/00.

METHOD OF PREPARING A MODIFIED SULFUR CEMENT.

Applicants : THE UNITED STATES OF AMERICA, REPRESENTED BY THE SECRETARY, U. S. DEPARTMENT OF COMMERCE, NATIONAL TECHNICAL INFORMATION SERVICE 5285 PORT ROYAL ROAD, SPRINGFIELD VIRGINIA, 22161.

Inventor : WILLIAM C. MCBEE AND THOMAS A. SULLIVAN.

Application No. 1185/Cal/80 filed on October 16, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

A method of preparing a modified sulfur cement comprising:

effecting polymeric reaction of sulfur and a modifier at elevated temperature between 115°C to 160°C,

said modifier containing 85 wt. % to 10 wt. % cyclopentadiene oligomer and 15 wt. % to 90 wt. % cyclopentadiene and/or dicyclopentadiene.

Specn. 34 pages.

Drgs. 4 sheets.

CLASS : 39A, 40F & H.

153725.

Int. Cl. B01d 15/00; C01b 17/16.

IMPROVEMENT IN A METHOD FOR CONCENTRATING AND REMOVING HYDROGEN SULFIDE FROM A CONTAMINATED GAS MIXTURE CONTAINING HYDROGEN SULFIDE AND CARBON DIOXIDE.

Applicants : AIR PRODUCTS AND CHEMICALS, INC., OF P.O. BOX 538, ALLENTOWN, PENNSYLVANIA 18105, UNITED STATES OF AMERICA.

Inventors : DAVID MICHAEL NICHOLAS AND WILLIAM PATRICK HEGARTY.

Application No. 1247/Cal/80 filed on November 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 claims

Improvement in a method for concentrating and removing hydrogen sulfide from a contaminated gas mixture comprising hydrogen sulfide, carbon dioxide, and a gas selected from the group consisting of hydrogen, methane, and a mixture of hydrogen and carbon monoxide, which method comprises :

- (a) contacting said contaminated gas mixture with a liquid absorbent comprising an absorbing solvent in a first liquid-gas contacting zone to absorb said hydrogen sulfide and form a hydrogen sulfide rich

liquid absorbent and an overhead gas, and thereby absorbing at least a portion of said carbon dioxide,

- (b) removing carbon dioxide from said overhead gas leaving said first contacting zone in a carbon dioxide absorber to form a product gas,
- (c) heating by heat exchange to an elevated temperature said hydrogen sulfide rich liquid absorbent leaving said first contacting zone to form a heated hydrogen sulfide rich liquid absorbent,
- (d) stripping carbon dioxide from said heated hydrogen sulfide rich liquid absorbent with a stripping gas in a second liquid-gas contacting zone to form a carbon dioxide rich gas and effluent hydrogen sulfide rich liquid absorbent stream containing stripping gas,
- (e) cooling, compressing, and recycling said carbon dioxide rich gas to said first contacting zone,
- (f) separating stripping gas from said hydrogen sulfide rich liquid absorbent stream leaving said second contacting zone in a first liquid-gas separating zone to form a separated stripping gas and a stripped hydrogen sulfide rich liquid absorbent, and admixing said separated stripping gas with said carbon dioxide rich gas leaving said second contacting zone,
- (g) separating hydrogen sulfide from said stripped hydrogen sulfide rich liquid absorbent leaving said first separation zone in a second liquid-gas separation zone to form hydrogen sulfide gas and purified liquid absorbent, and
- (h) recycling said purified liquid absorbent from said second liquid-gas separation zone to said first liquid-gas contacting zone with from 0 to 100 percent of said purified liquid absorbent being recycled passing first through said carbon dioxide absorber.

Specn. 17 pages.

Drgs. 1 sheet.

CLASS : 129B.

153726.

Int. Cl. B21d 22/30, 51/34.

A METHOD AND TOOL FOR REDRAWING.

Applicants METAL BOX LIMITED, OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JH. BERKSHIRE, ENGLAND.

Inventors : JOZEF TADEUSZ FRANEK, AND PAUL PORUCZNIK.

Application No. 1256/Cal/80 filed on November 5, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 claims

A method of redrawing a predrawn cup in a tool comprising an annular die and an annular blank holder having a common axis, and a punch movable forwardly along the axis through first the blank holder and then the die, characterised in that the wall of the cup, being of predetermined initial thickness, is drawn by the punch through a path delimited by portions of the tool and substantially S-shaped in radial section, the path comprising :

- (a) a first curved portion defined by the blank holder to bend the wall radially inwardly,
- (b) a second curved portion defined by the die and curved in the reverse direction from the first curved portion, to bend the wall back towards a more nearly cylindrical configuration, and
- (c) a convergent portion of the path defined by a bore of the die and leading forward from said second curved portion, the cup wall being out of contact with the punch but in contact with the die in the convergent portion and the radii of said curved portions being three to four times the said initial thickness, whereby the wall thickness is reduced mainly in the second curved portion and convergent portion of the path.

Specn. 20 pages.

Drgs. 6 sheets.

CLASS : 63D.

153727.

Int. Cl. H02k 5|00.

ELECTRIC CEILING FAN.

Applicants : KHAITAN FANS PRIVATE LIMITED, OF 46-C, J. L. NEHRU ROAD, 18TH FLOOR, CALCUTTA-700071, WEST BENGAL, INDIA.

Inventor : SHREE KRICHNA KHAITAN.

Application No. 1277|Cal|80 filed on November 15, 1980.

Complete specification left on August 11, 1982.

Post dated to May 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 claims

An improved electric ceiling fan characterised in that both bearings in top cover are on one side of stator housed in a housing and the top cover and rotor are integrally formed.

Specn. 9 pages.

Digs. 2 sheet.

CLASS : 136 C & E, & 151C.

153728.

Int. Cl. B29d 23|04, F16L 8|12.

A TUBE OF THERMOPLASTICS AND A METHOD OF MANUFACTURING THE SAME.

Applicant : WAVIN B.V., OF 251 HANDELLAAN, 8031 EM ZWOLLE, NETHERLANDS.

Inventor : VAN DONGEREN.

Application No. 1296|Cal|80 filed November 20, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 claims

A tube of thermoplastics within the wall of which tube and between inner and outer portions thereof are formed circumferentially spaced apart, longitudinally extending channels, the stresses in the wall being such that if a test cut is made in the wall parallel to the axis of the tube any resulting circumferential overlap of the edges of the wall formed by the cut will be less than 5% of the original outer circumference of the tube.

Specfn. 1 pages.

Drgs. 2 sheets.

CLASS : 108C₁.

153729.

Int. Cl. C21c 5|32.

A PROCESS FOR THE DECARBURIZATION OF CHROMIUM CONTAINING CAST-IRONS.

Applicant : UGINE ACIERS, 10, RUE DU GENERAL FOY 75008 PARIS, FRANCE.

Inventors : GEORGES MARIZY.

Application No. 1349|Cal|80 filed December 5, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

A process for the decarburization of a chromium-containing cast-iron containing from 1.5 to 8% of C, from 10 to 30% of Cr, from 0 to 30% of Ni, from 0 to 20% of Co + Mn Mo, and less than 4% of Si and the usual impurities, using a branch pipe comprising a tuyere which emits in the direction of the surface of the metal bath a high pressure oxygen jet comprising a supersonic zone, characterized in that the oxygen jet is orientated approximately vertically and that the distance between the end of the tuyere and the surface of the metal bath is comprised between 5 and 30 times the diameter of the tuyere neck. the oxygen jet expelling then progressively

the layer of slag from the surface of the bath and causing reactions which produce arise of the cast-iron temperature and some decarburization, characterized also in that said decarburization using said oxygen jet is proceeded at least until the carbon content of the chromium cast-iron is equal to CD/n, CD being initial carbon content of the cast-iron in weight percent and n being between 1.5 and 2.5, and until at the same time the temperature of said cast-iron is of the order of 1,700°C or higher, and characterized in that the decarburization is then continued using the direct action of the oxygen on the cast-iron within the gas/cast-iron emulsion produced.

Specn. 18 pages.

Drgs. Nil.

CLASS : 151E & F.

153730.

Int. Cl. B21d 39|08.

A METHOD OF PRODUCING AN ASSEMBLY BY FIXING A TUBE BY EXPANSION.

Applicant : VALLOUREC SA, 7, PLACE DU CHAMCE-LIER ADENAUER-75116, PARIS, FRANCE.

Inventor : ANDRE GARNIER.

Application No. 1442|Cal|80 filed December 29, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 claims

A method for producing an assembly by fixing a tube by expansion into a tube plate characterized by the following steps:

forming at least one bore in a metal plate to receive the tube, the inside surface of said bore having at least one annular projection with an axial length not greater than 1 mm when measured parallel to the axis of the bore;

inserting the tube, said outside diameter of the tube being less than the inside diameter of the bore into said bore; and forcing the outer surface of the tube against the inside surface of the bore so that the annular projection on the inside surface of the bore sealingly engages the outer surface of the tube.

Specfn. 11 pages.

Drgs. 2 sheets.

CLASS : 98I & 152C.

153731.

Int. Cl. C09k 3|04; F24h 7|00; F24j 3|02.

POLYPHASE HEAT OR COLD STORAGE COMPOSITION.

Applicants : BOARDMAN ENERGY SYSTEMS, INCORPORATED, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : BRYAN JOHN BOARDMAN.

Application No. 1447|Cal|80 filed on December, 31, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 claims

A method for the preparation of a polyphase latent heat storage composition comprising intimately intermixing a latent heat storage component such as hereindescribed in an amount of from 10 to 97% by weight with a heat of fusion greater than 16 gram calories per gram (61 joules per gram) with a hydrated hydraulic cement component such as hereindescribed to form a suspension, further mixing the said suspension with cooling as hereindescribed, transferring the said suspension to an open vapour impermeable container, hermetically

sealing said vapour impermeable container and optionally incorporating in the said mixture in a way as hereindescribed a nucleating agent of the type hereindescribed and/or a thermal conductive material of the type hereindescribed and/or an admixture of the type hereindescribed.

Specn. 27 pages.

Drugs. Nil.

CLASS : 157D6(d).

153732.

Int. Cl. E01b 9/28.

DEVICE FOR FASTENING RAILS TO TRANSVERSE AND/OR LONGITUDINAL SLEEPERS AS WELL AS SLEEPERLESS RAIL SUPPORT POINTS OF ALL TYPES.

Applicants : SCHWIBAG GESELLSCHAFT FUER EISENBAHNOBERBAU MBH, CH-8274 TAGERWILEN, SWITZERLAND, AND KARL RICHTBERG KG., D-6530 BINGEN/RHEIN 1, A GERMAN COMPANY.

Inventors : DIPL-ING. ARMIN HEIM, DR. JOHANNES HORN AND KARL-H. SCHWIEDE.

Application No. 4/Cal/81 filed on January 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 claims

Device for fastening rails to transverse and/or longitudinal sleepers as well as sleeperless rail support points of all types, especially to timber sleepers on the permanent way, consisting of a bedplate or ribbed plate or two interacting support plates which are placed onto the top face of the sleeper or onto the rail support point respectively and which is or are respectively anchored by means of sleeper bolts or the like to the sleeper or to the rail support point respectively and on which or between which respectively the rail foot is fastened either by means of hook bolts, clamping plates and spring rings or else via clamping brackets or clamping clips in an elastically form-looking manner, characterised in that the bedplate or ribbed plate (4) and/or the rib support plates (17) for lines and points has or have respectively an initial form which curves inwards and downwards (i.e. the plates are curved downwards from the ends to the middle of the plates) (11 and 20 respectively) from its or their boundary edges respectively 4' and 17' respectively) and is or are respectively braceable by means of the sleeper bolts (5) or the like, with elastic deformation, two-dimensionally onto the top face (10) of the sleeper or onto the bearing face of the rail support point respectively.

Specn. 22 pages.

Drugs. 4 sheets.

PATENTS SEALED

151777 151990 152116 152121 152122 152126 152129 152138
152139 152140 152141 152142 152144 152145 152146 152147
152153 152158 152159 152161 152162 152163 152165 152166
152170 152173 152175 152184

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 142351 dated the 27th November, 1975 made by Nuchem Plastics Limited on the 14th September, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 21st January, 1984 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 143177 dated the 18th December, 1974 made by Owens-corning Fibreglas Corporation on the 7th November, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 25th February, 1984 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 146161 dated the 27th April, 1977 made by James Kemp & Co. Pty Ltd. on the 5th December, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 24th March, 1984 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 148028 dated the 9th December, 1977 made by Josef Krings on the 7th November, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 25th February, 1984 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 148857 dated the 18th January, 1978 made by Scharfenbergkupplung G.m.b.H. on the 18th November, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 17th March, 1984 has been allowed and the said patent restored.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 142434 granted to K. G. Khosla Compressors Private Limited for an invention relating to "Improvements in, or relating to compressors".

The patent ceased on the 11th October, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 18th February, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 11th October, 1984 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144028 granted to Union Carbide India Limited, for an invention relating to "A process of continuous production of alpha sodium naphtholate".

The patent ceased on the 28th July, 1983 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 2nd June, 1984.

Any Interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 11th October, 1984 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 148273 granted to "Council of Scientific & Industrial Research for an invention relating to "Improved process for the production of Zinc phosphate using zinc carbonate".

The patent ceased on the 3rd July, 1983 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 19th May, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 11th October, 1984 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(9)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 150851 granted to Ishwarlal Popatlal Kanadiya, Vinodrai Popatlal Kanadiya and Sanmukhrai Popatlal Kana-

diva for an invention relating to "A pan and pan support member for two pan balance".

The patent ceased on the 9th February, 1984 due to non-payment of renewal fees within the proscribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 2nd June, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 11th October, 1984 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

CHEM. ENGG. LIST NO. X.

COMMERCIAL WORKING OF THE PATENTED INVENTION.

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar year 1982, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

(1)

Sr. No.	Patent No.	Date of Patent	Name & Address of Patentees	Title of the invention
1	2	3	4	5
1.	145165	8-10-1976	JOHNSON & JOHNSON, of 501 George Street, New Brunswick, New Jersey, U.S.A.	Low Irritation detergent composition.
2.	145169	28-3-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of No. 8 Hori-dome, Cho Nihonbashi, Chuo-ku, Tokyo, Japan.	Method of producing nitrogen containing polysaccharides.
3.	145212	6-5-1977	HOECHST AKTIENGESSELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Process for the preparation of isomer free toluene-4-Sulphonic acid.
4.	145230	29-9-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process & the reactor for the partial combustion of pulverized coal.
5.	145251	27-5-1976	ASAHI GLASS COMPANY, of No. 1-2 Marunouchi, 2-Chome, Chiyoda-ku, Tokyo, Japan.	Process for producing ammonium chloride.
6.	145260	9-3-1977	HALDER TOPSOE A/S OF 55 Nymollevvej, DK-2800, Lyngby, Denmark.	Apparatus & process for synthesis of ammonia.
7.	145262	7-6-1977	SANRAKU-OCEAN COMPANY LTD. & ETC. of 7 Takara-cho, 1-chome, Chuo-ku, Tokyo, Japan.	A method for preparing deipetide antibiotics neoviridogriseins.
8.	145273	30-11-1976	UNION CARBIDE CORPORATION, of 270 Park avenue, New York, State of New York-10017, U.S.A.	Method for preparing assymetrical n-substituted bis carbonate sulfide compounds.
9.	145275	28-1-1977	UOP INC. at Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Method of regenerating coke contaminated catalyst with simultaneous combustion of carbon monoxide.
10.	145277	22-8-1975	ELI LILLY & COMPANY, of 307 East Mc. Carty Street, Indianapolis, Indiana, U.S.A.	A process for preparing 3-phenyl-5 substituted 4(1,4) pyrilones (thcncet).
11.	145280	17-8-1977	GREAT LAKES CARBON CORPORATION, of 299 Park avenue, New York, U.S.A.	A method of calcining & rotary calciner.
12.	145292	28-12-1976	CHINOIN GYOGYSZER ES VIGYES-ZETI TERMEKEK GYARA RT of 1-5 10 u, Budapest, Hungary.	Process for preparation of N-2 (2 furyl) ethylamine derivatives.
13.	145307	4-5-1976	BIOMECHANICS LIMITED, of Smarden, Ashford Kent, England.	A method of obtaining reduced quantity of Waste materials from biodegradable waste materials.

	2	3	4	5
14.	145313	10-1-1977	F.L. SMIDTH & CO. A/S of 77 Vigerslev Alle, DK-2500 Valby, Copenhagen, Denmark.	A method of burning pulverous raw materials such as cement raw meal lime stone of chemically precipitated CaCO_3 or alumina trihydrate in a plant.
15.	145355	7-5-1976	EISENWERK GESELLSCHAFT MAXIMILIANSHUTTE mbH. of 8458, Sulzbach Rosenberg, West Germany.	Method & apparatus for continuous gasification of solid &/or fluid carbon containing &/or hydrocarbon containing substance in molten iron in a reaction vessel.
16.	145362	2-5-1977	MONSANTO COMPANY, of 800 North Lindbergh, Boulevard, St. Louis, Missouri, 63166, USA.	A process for preparing adducts of a salts of n-phosphoremethyl glycine and a cyclic anhydride.
17.	145378	4-5-1977	AMERICAN CYNAMID COMPANY, of Wayne, New Jersey, U.S.A.	Novel method for denitrosation or organic nitrosamines.
18.	145468	22-6-1976	S.I.A.P. SOCIETA INDUSTRIELE AGGLOMERATI e PRODOTTI, PETROLIFERI S.p.A., of 117 Corso del Popolo, 30172, Venezia-Mestie, Italy.	A process for producing graphitic agglomerates & agglomerated products obtained by it.
19.	145471	28-12-1976	MONSANTO COMPANY, of 800 North Lindbergh Boulevard, St. Louis, Missouri, 63166, U.S.A.	Preparation of benzyl & aryl esters of n-phosphoroethyl glycines.
20.	145517	18-10-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of a hydrogen rich gas.
21.	145549	4-12-1974	MONSANTO COMPANY, of 800 North Lindbergh Boulevard St. Louis Missouri, 63166, U.S.A.	Process for preparing optically active catalyst.
22.	145552	26-8-1977	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Pigments dispersions.
23.	145599	3-1-1977	TOTH ALUMINIUM CORPORATION of 5010 Leroy Johnson Drive, New Orleans, 70182, U.S.A.	Improved halogenation process.
24.	145613	8-12-1976	AMERICAN CYANAMID COMPANY, of Wayne New Jersey, U.S.A.	Process for preparing 2, 6, dinitro aniline herbicides.
25.	145617	22-8-1977	OUTOKUMPU OY of Outokumpu, Finland.	Hydrometallurgical process for recovery of zinc, Copper & cadmium from their ferrites.
26.	145626	15-7-1976	AIR PRODUCTS AND CHEMICALS, INC of Allentown, Pennsylvania 18105, U.S.A.	Gasification of hydrocarbon feed stocks.
27.	145670	6-1-1977	UNION CARBIDE CORPORATION, of 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Method of preparing nickel, rhenium hydrogenation catalyst.
28.	145672	5-5-1977	CHINOIN GYOGYSZER ES VEGYES-ZETI TERMEKEK GYARA, RT, of 1-5 to U, Budapest IV Hungary.	Process for the preparation of novel α -amino carboxylic acid amides.
29.	145755	7-2-1977	AMERICAN HOME PRODUCTS CORPORATION, of 635, Third avenue, New York, 10017, U.S.A.	Process for the preparation of oxalic acid.
30.	145788	15-10-1976	DEUTSCHE GOLD-UND SILBER-SCHNEIDANSTALT VORMALS ROESSLER, 9, Weissfrauenstrasse, 6000 Frankfurt (Main) F.R.G.	Procedure for carrying out Ion Exchange Reactions.
31.	145845	15-12-1976	PFIZER INC. of 235 East 42nd street, New York, State of New York, U.S.A.	Process for preparing a stable antibiotic composition.
32.	145851	7-4-1977	NITTO CHEMICAL INDUSTRY COMPANY LIMITED, of No. 5-1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo, Japan.	Process for producing acrylonitrile.
33.	145855	29-7-1977	UOP INC. AT Ten UOP Plaza-Algonquin, Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for separating a monosaccharide from an oligosaccharide by selective adsorption.

1	2	3	4	5
34.	145865	22-12-1976	JEAN-VYES K-GAIL, of 26 Rue de l'église-92200, Neuilly-Sur-Seine, France.	A water proof covering and process for manufacturing the same.
35.	145870	19-1-1976	TOYAMMA CHEMICAL COMPANY LIMITED, of 1-18, Kayabacho Nihonbashi, chuo-ku, Tokyo, Japan.	A process for producing cephalosporins.
36.	145872	12-4-1977	DEUTSCHE GOLD-AND SILVER SCHEIDENSTADT VORMALS, ROSSLER of 9 Weiss frauenstrasse, Frankfurt (Main), F.R.G.	Process for preparing basically substituted xanthine derivative
37.	145892	16-4-1977	UNION CARBIDE INDIA LIMITED, of 1, Middleton Street, Calcutta-700016, West Bengal, India.	A synthetic method for production of 2-chloro 2-methyl- -nitropropene.
38.	145893	16-4-1977	Do.	Process for the production of butyl nitrite.
39.	145905	7-3-1977	JOHN WYETH & BROTHER LIMITED, of Huntercombe Lane South, Taplow, Maidenhead, Berkshire, England.	Process for preparing indoles.
40.	145922	23-6-1976	BAMAG VER, of Butzbach Hessen West Germany.	Coal gasification process.
41.	145931	21-8-1976	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 65- 66, Backbay Reclamation, Bombay-20, Maharashtra, India.	Detergent compositions.
42.	145935	9-6-1978	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, of P.O. Polytechnic Ahmedabad-15, Gujarat, India.	Improvements in or relating to the synthesis of 2, 3I4, 6-di-O-isopropylidene L-sorbose.
43.	145959	12-10-1976	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 65- 66, Backbay Reclamation, Bombay-20, Maharashtra, India.	Heavy duty fabric washing powder.
44.	145961	4-10-1977	METALLGESELLSCHAFT AG. of 6 Frankfurt A.M. Reuterweg 4, German Federal Republic.	Process for regenerating water containing methanol or other water containing highly volatile organic solvent from gases.
45.	145965	5-10-1977	UBE INDUSTRIES LIMITED, of 12-32, 1-Chome, Nishi-Honmachi, Obe-shi, Yamaguchiken, Japan.	Process for preparing diesters of dicarboxylic acids.
46.	145988	5-4-1977	PHILLIPS PETROLEUM COMPANY, of Bertles Ville, State of Oklahoma, U.S.A.	Process for the production of carbon block.
47.	145990	6-6-1977	BOLIDEN AKTIEBOLAG, of Sturegatan 22, Stockholm, Sweden.	A method of crystallizing aluminium sulphate solution to dust free granules having uniform grain size.
48.	145992	4-7-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of No. 8, Horidome-Chome, Nihonbashi Chuo-ku, Tokyo, Japan.	Method of producing polysaccharides.
49.	146012	26-7-1977	Do.	Improvements in a method of preparing a nitrogen containing polysaccharide.
50.	146030	21-9-1977	AMERICAN HOME PRODUCTS CORPORATION, of 685, Third Avenue, New York 10017, U.S.A.	Process for the preparation of non-peptides.
51.	146044	1-4-1977	SHIN-ETSU CHEMICAL COMPANY LIMITED, of 6-1, Otenmachi 2, Chome, Chiyoda-ku, Tokyo, Japan.	Method for removing unreacted monomer from the aqueous dispersion of polymerizate of vinyl chloride.
52.	146057	19-7-1977	PROJECTIERUNG CHEMISCHE VERF AHRENSTECHNIC G.M.B.H. of Grabenstr. 5,400 Dusseldorf 1, West Germany.	Process for obtaining xylan & fibrin from vegetable raw material containing xylans.
53.	146058	18-2-1977	KANEBO LIMITED, of 3-26, Tsutsumidori 3-chome, Sumida-ku, Tokyo, Japan.	Method for the preparation of novel transient prodrug forms of xanthene derivatives.
54.	146069	10-5-1977	JOHNSON & JOHNSON, of 501, George street, Brunswick, New Jersey, U.S.A.	Tacky adhesive composition.

1	2	3	4	5
55.	146105	29-10-1967	UNION CARBIDE CORPORATION, of 270 Park Avenue New York, State of New York 10017, U.S.A.	Process for removal of H ₂ S from feed gas.
56.	146113	19-7-1977	PROJEKTIERUNGSCHEMISCHE VERFAHRENSTECHNIK GMBH of Grabenstr. 5, 4000, Dusseldorf, 1, West Germany.	Process for Production of glucose from cellulose containing vegetable material.
57.	146114	5-10-1977	UNION CARBIDE INDIA LIMITED, of 1 Middleton Street, Calcutta-700 016, West Bengal, India.	Method for the synthesis of herbicidal composition containing a mixture of 3:4 & 2:4 dichlorobenzyl N-methyl carbonates.
58.	146138	14-11-1977	IBEC INDUSTRIES, INC. of 1271 Avenue of the Americas, New York 10001, U.S.A.	Process for coagulating polymer latices using screw type extruder.
59.	146147	29-3-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York State of New York-10017, U.S.A.	Process for producing particulate resolve from aqueous dispersion.
60.	146167	18-11-1977	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt Main 80, F.R.G.	Process for the preparation of Water soluble dyestuffs.
61.	146173	10-2-1977	CHINOIN GYOGYSZER ES VEGYESZETLTERMEKEK GYARA RT of TO Utea 1-5 Budapest IV, Hungary.	Process for the preparation of fused pyrimidine derivatives.
62.	146212	3-6-1977	HOECHST AKTIENGESELLSCHAFT, of 230 Frankfurt Main, F.R.G.	A process for preparing stabilized red phosphorous.
63.	146230	2-4-1975	PERSONAL PRODUCTS COMPANY, of Mill-town, New Jersey, U.S.A.	A sanitary absorbent product having cellulose graft copolymer.
64.	146241	7-4-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York 10017, U.S.A.	Continuous hydroformylation process
65.	146242	11-4-1977	GENERAL ELECTRIC COMPANY, of 1, River Road, Schenectady-5, New York, U.S.A.	Method of producing grain oriented silicon iron sheet.
66.	146287	24-10-1977	CHARLESWAYNE REED, of 5174 Brookside Lane, Concord, California 94521, U.S.A.	A method & apparatus for purification of Water form power plant steam cycle.
67.	146313	6-5-1977	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt Main, F.R.G.	Process for the preparation of phthalocyanine compounds.
68.	146324	16-5-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue New York, State of New York 10017, U.S.A.	Process of treating fabrics with foam.
69.	146325	7-12-1977	HOECHST AKTIENGESELLSCHAFT, of 6230, Frankfurt Main 80, F.R.G.	A water-free solid, water Soluble dyeing compositions.
70.	146347	18-11-1977	MONSANTO COMPANY, of 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Process for preparing O-Aryl N-Phosphonoglycino nitriles & salts thereof.
71.	146348	18-11-1977	Do.	A process for preparing N, N'-methylene bis (O' O. Diaryl N-phosphoromethyl glycinonitriles)
72.	146351	7-5-1976	IMPERIAL METAL INDUSTRIES KYNOCH LIMITED, of Kynoch, Works, Witton, Birmingham B6 7BA, England.	A method of manufacturing an alloy of of titanium.
73.	146361	11-8-1977	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, of No. 8 Horidome-cho. 1-chome Nihonbashi, Chuo-ku, Tokyo, Japan.	method for preparing basideomycetes.
74.	146362	7-5-1976	EISENWERK-GESELLSCHAFT MAXIMILIANSHUTTE mbH of 8458, Sulzback Rosenberg, West Germany	Method & apparatus for continuous gasification of solid and or fluid carbon containing and or hydrocarbon containing substances in molten iron in a reaction vessel.
75.	146408	24-1-1978	UNION CARBIDE CORPORATION, at 270 Park avenue, New York, State of New York, 10017, U.S.A.	Improved hydroformylation process.

CHEM. ENGG. LIST—XI

Sl. No.	Patent No.	Date of Patent	Name & Address of Patentees	Title of the inventions
1	2	3	4	5
1.	146446	11-8-1977	KUREHA KAGAKU KOGYO KABU-SHIKI KAISHA, of No. 8, Horidome-cho, 1, Chome, Nihonbashi, Chuoku, Tokyo, Japan.	A method of propagating the mycelia of fungus from the polyporaceae to class Basidiomycetes.
2.	146478	13-5-1977	MULTICORE SOLDERS LIMITED, of Kelsey House, Woodlane End, Maylands avenue, Hemel Hempstead, Hertfordshire, HP2, 4PT England.	Flux composition for soft soldering.
3.	146479	14-6-1977	USS ENGINEERS & CONSULTANTS, INC. of 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Process for producing a synthetic rutile from Ilmenite.
4.	146516	26-10-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel, Van Bylandtlaan 30, The Hague, The Netherlands.	Esterification of hydroacaryl-substituted Succinic anhydrides.
5.	146526	25-3-1977	HINDUSTAN CIBA-GEIGY LIMITED, of Aarey Road, Goregaon (E) Bombay-400 063, Maharashtra, India.	Process for the manufacture of new imidazolines.
6.	146531	19-10-1976	ALUMINIUM PÉCHINEY, of 28 rue de Bonnel 69003, Lyon, France.	Purifications circulating in the layer cycle for the alkali treatment of bauxilex by a barium compound.
7.	146537	30-8-1977	KUREHA KAGAKU KOGYO KABU-SHIKI KAISHA, of 8 Horidome-Cho, 1-Chome, Nihonbashi, chuo-ku, Tokyo, Japan.	A method of producing novel monokaryotic mycelium of corolus versicolor.
8.	146553	24-8-1977	KUREHA KAGAKU KOGYO KABU-SHIKI KAISHA, of No. 8 Horidome-Chome, Nihonbashi, Chuo-ku, Tokyo, Japan.	Method for the cultivation of Basidiomycetes.
9.	146605	19-12-1977	MONSANTO COMPANY, of 800 North Lindbergh Boulevard, St. Louis, Missouri, 63166, U.S.A.	Process for producing mono or di-N-phosphonomethylglycine salts.
10.	146612	30-8-1977	KUREHA KAGAKU KOGYO KABU-SHIKI KAISHA, of No. 8, Horidomecho, 1-chome Nihon-bashi, chuo-ku, Tokyo, Japan.	Improvements in a method for the cultivation of basidiomycetes belonging to the genus coriolus polyporaceae.
11.	146613	26-7-1977	ICI LTD, of Imperial Chemical House, Mill bank, London, SW1P, England.	A method of preparing a hardened calcium sulphate hemihydrate plaster.
12.	146619	13-12-1977	Do.	Process for the production of methanol.
13.	146620	7-2-1977	AMERICAL HOME PRODUCTS CORPORATION, of 685, Third avenue, New York-100 17, U.S.A.	Process for the preparation of oxanilic acid derivatives.
14.	146621	7-2-1977	Do.	Process for the preparation of oxanilic acid derivatives.
15.	146625	11-8-1977	FMC CORPORATION, of 2000 Market Street, Philadelphia, Pennsylvania 19103, U.S.A.	A process for the preparation of an insecticidal Compound.
16.	146661	6-7-1977	UNION CARBIDE CORPORATION, of 270 Park avenue, New York, State of New York, 10017, U.S.A.	Improvement in or relating to hydroformylating an alpha-olefin.
17.	146666	18-5-1978	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, of P.O. Polytechnic, Ahmedabad-15, Gujrat, India.	A process for bleaching textile being cotton and its blends and an equipment for it.
18.	146671	27-1-1977	ACIERIES DU MANOIR POMPEY, of 62 Boulevard victor-Hugo, 92200, Neuilly-sur-seine, France.	Improvements in or relating to a heat resisting Nickel-chromium alloy having high resistance to oxidation, carburization & creep at high temperature.

1	2	3	4	5
19.	146685	7-2-1977	AMERICAN HOME PRODUCTS CORPORATION, of 685, Third Avenue, New York-10017, U.S.A.	Process for the manufacture of oxenilic acid derivatives.
20.	146690	17-8-1977	SOCIETE D'ETUDES DE PRODUITS CHIMIQUES of 4 rue Theodrine Ribot 75017 Paris, France.	Preparation process of a pyrimidine derivative.
21.	146699	12-1-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20, Maharashtra, India.	An antiperspirant composition.
22.	146731	29-12-1977	CHINOIN GYOGYSZER-ES VEGYESZETI TERMEKEK GYARA RT. of 1-5 to Utca Budapest IV Hungary.	Process for preparing isquinoline-acetamide derivatives.
23.	146734	11-8-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, state of New York 10017, U.S.A.	A process for producing aldehyde products by Rhodium catalyzed hydroformylation of alphaolefins.
24.	146768	8-7-1977	DUNLOP PLANTATIONS LTD, of 6th floor, 47-48, Piccadilly, London W1V9PH, England.	Method for the treatment of biodegradable material.
25.	146785	4-5-1977	UOP, INC. at Ten UOP Plaza—Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for the catalytic hydrotreating of an asphaltenic hydrocarbonaceous charge stock employing a catalyst provided on support material having improved macropore volume.
26.	146802	14-12-1977	HERCULES INCORPORATED, of Wilmington, State of Delaware 19899, U.S.A.	Process for recovering oil from subterranean formations (Docket 761000-A-Ind.)
27.	146818	17-3-1978	THE INDIAN SPACE RESEARCH ORGANISATION, Dept. of space "F" Block, Cauvery Bhavan, District office Road, Bangalore 560 009, Karnataka State, Government of India.	Process for the production of polyols containing basic nitrogen.
28.	146844	30-11-1976	UNION CARBIDE CORPORATION, of 270 Park avenue, New York, State of New York 100 17, U.S.A.	A method of preparing novel symmetrical N-substituted bis-carbamoyl sulfide compounds.
29.	146850	31-12-1977	VEB JENAPHARM, of 69 jena, Postfach 150 German Democratic Republic.	Process for the manufacture of new gona—4, 9 (10)—dienes.
30.	146890	13-10-1977	METALL GESELLSCHAFT, A.G. of 16 Frankfurt A.M. Reuterweg 14, West Germany.	Process of regenerating laden absorbents which become available when hydrocarbon containing gases are purified.
31.	146909	29-12-1977	RICHTER GELFON VEGYESZETI GYAR RT of 21 Gyomroi U, Budapest X, Hungary.	A process for preparation of new indolequinoline monomers, diesters of nitriles.
32.	146930	11-10-1977	SAINT-GOBAIN INDUSTRIES, of 62 Boulevard, Victor-Hugo, Neuilly-Sur-Seine, France.	Method & apparatus for manufacturing a mat of fibres from thermoplastic materials.
33.	136932	8-9-1977	TEXACO DEVELOPMENT CORPORATION, of 135 East 42nd street, New York-10017, U.S.A.	Process for the product stream of production of cleaned and purified aqueous mixtures comprising H ₂ & CO and CO-rich product gas stream.
34.	146933	15-9-1977	HOESCHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, Federal Republic of Germany.	Process for modifying mixtures of azo dyestuff unstable under cycling conditions.
35.	146954	3-10-1977	PFIZER INC. of 235 East 42nd Street, New York, State of New York, U.S.A.	Process for the conversion of trans to cis N-dimethyl-9 [3-(methyl-1-Piperazinyl) Propylidene thioxanthene-2. Sulfonamide and recovery of the cis-isomer.
36.	146956	17-6-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York-10017, U.S.A.	Process for refining molten metal.
37.	146961	24-11-1977	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80 Federal Republic of Germany.	A dispersion of organic & inorganic solid having acidic groups on its surface and process for preparing the dispersion.

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38.	146967	16-12-1977	BEHRINGWERKE AKTIENGESELLSCHAFT, of Marburg/Lahn, F.R.G.	A process for the production of Immunoglobulin preparations with a reduced complement activity.
39.	146986	25-3-1977	UOP INC. at Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Method of reactivating spent liquid catalytic phthalocyanine composite.
40.	146989	9-11-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of a hydrocarbon mixture containing 2, 2, 3-trimethyl butane.
41.	147000	11-11-1977	THE GOODYEAR TIRE & RUBBER COMPANY, of 1144 East Market Street, Akron, Ohio, U.S.A.	A process for the molding of a zero pressure device.
42.	147013	8-9-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	Process of refining Triglyceride oils.
43.	147022	20-1-1978	UNION CARBIDE CORPORATION, at 270 Park Avenue New York, State of New York 10017, U.S.A.	Method for preparing titanium-modified silyl chromate catalysts for ethylene polymerization.
44.	147048	3-12-1977	HOECHST AKTIENGESELLSCHAFT of 6230, Frankfurt/Main 80, Federal Republic of Germany.	Process for making stabilized Red Phosphorus.
45.	147049	21-11-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the preparation of crystalline silicates.
46.	147056	5-10-1977	PFIZER INC. of 235 East 42nd Street New York, State of New York, U.S.A.	A process for the production of spirohydantoin compounds.
47.	147072	31-1-1978	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, the Hague, The Netherlands.	A method of purifying 3, 5-xyleneol.
48.	147119	15-12-1977	DEUTSCHE GOLD-UND SILBER-SCEIDEANSTALT VORMALS ROESSLER, of Weissfrauenstrasse-9, 6000 Frankfurt 1, F.R.G.	Process for the production of basic substituted alkyl theophylline.
49.	147144	30-9-1977	UNION CARBIDE CORPORATION, at 270 Park avenue, New York, State of New York 10017, U.S.A.	Renitrogenation of basic-oxygen steels during decarburization.
50.	147145	5-12-1977	SHOWA DENKO KABUSHIKI KAISHA, of 13-9, shiba daimon, 1-chome, minato-ku, Tokyo, Japan.	Process for preparing a ferrochromium by using a blast furnace.
51.	147159	18-10-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of hydrocarbons.
52.	147216	29-3-1978	NIPPON SODA COMPANY LIMITED, of No. 2-1, Ohtemachi & 2-chome, Chiyoda-ku, Tokyo, Japan.	Process for the preparation of imidazole derivatives & metal salts thereof.
53.	147225	22-9-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	Preparation of modified & activated chromocene catalysts for ethylene polymerization.
54.	147236	21-7-1978	PRODES S.A. of Trabajo Street, San Justo Desvern (Barcelona) Spain.	Process for preparing lysine 2(6'-methoxy-2-naphthyl) propionate.
55.	147255	5-10-1977	FMC CORPORATION, of 2000 Market Street, Philadelphia, Pennsylvania 19103, U.S.A.	A process for obtaining hydrogen sulfide free steam from geothermal steam or industrial gas streams containing hydrogen sulfide & water vapour.
56.	147264	9-3-1978	KONTIKI CHEMICALS AND PHARMACEUTICALS (PVT) LTD, of A.K. House Bldg, Mill Road Baliapattam, Kerala state, India.	Process for the preparation of coir derivatives.

1	2	3	4	5
57.	147266	18-2-1978	HINDUSTAN LEVER LIMITED, of Hindustan Lever 165-166, Backbay Reclamation, Bombay-20, Maharashtra State, India.	Deodorant detergent composition.
58.	147268	26-5-1978	Hindustan CIBA-GEIGY LIMITED of Aarey, Road, Goregaon East Bombay-400 063, Maharashtra, India.	Process for the manufacture of 5-substituted 2-4-diamino-Pyrimidines.
59.	147296	27-6-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue New York, State of New York 10017, U.S.A.	Process for lowering sulfur content of vanadium carbon materials used as additions to steel.
60.	147300	26-7-1977	ICI LTD, of Imperial Chemical House, Mill bank, London, SW1P, England.	A set-inhibited aqueous calcium sulphate hemihydrate plaster slurry composition.
61.	147307	8-1-1979	KONTIKI CHEMICALS AND PHARMACEUTICALS (PVT) LTD, of A.K. Office Building, Mill Road, Baliapatam, Cannanore 10, Kerala State, India.	Process for preparing derivatives from coffee husks.
62.	147335	28-11-1977	AMERICAN CYANAMID COMPANY, of Wayne New Jersey, U.S.A.	A method for the preparation of m-phenoxy benzyl esters of 2-haloalkyl (oxythio-sulfinyl or sulfinyl) phenylalkanoic acids useful as insecticidal & acaricidal agents.
63.	147336	11-1-1978	MIDREX CORPORATION, of one NCNB Plaza, Charlotte, North Carolina 28280, U.S.A.	Method & apparatus for reducing particulate iron oxide to metallic iron with solid reductant.
64.	147365	18-11-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-400 020, Maharashtra, India.	A process for the preparation of a premix to food stuffs for human & animal.
65.	147367	27-12-1977	Do.	A process for selective hydrogenation of polyunsaturated organic compounds.
66.	147371	1-3-1978	Do.	Fabric softening composition & process for preparing the same.
67.	147406	19-1-1978	DEUTSCHE GOLD-UND SILBERSCHEIDEANSTALT, VORMALS ROESSLER, of 9 Weissfrauenstrasse, Frankfurt (Main) Federal Republic of Germany.	A process for the production of a mixture of 2-methyl pyridine & 3-methyl pyridine.
68.	147407	19-1-1978	Do.	A process for the production of a mixture of pyridine and 3-methyl pyridine.
69.	147418	9-3-1978	KONTIKI CHEMICALS AND PHARMACEUTICALS (PVT) LTD, of A.K. OFFICE Bldg., Mill Road, Baliapatam, Kerala, State, India.	A process for preparing an improved adhesive substance.
70.	147422	20-6-1978	HINDUSTAN CIBA-GEIGY LIMITED, of Aarey Road, Goregaon, East, Bombay-400 063, Maharashtra, India.	Process for the production of pharmacologically active new nitroimidazoles.
71.	147427	21-1-1978	SHIN-ETSU CHEMICAL COMPANY LTD, of 6-1, Otemachi, 2-chome Chiyodaku, Tokyo, Japan.	Improved method for the polymerization of vinyl monomers.
72.	147428	7-3-1979	UNION CARBIDE INDIA LTD, of 1 Middleton Street, Calcutta-700 016, West Bengal, India.	A process for the selective chlorination of side chain in aromatic compounds.
73.	147430	19-1-1978	DEUTSCHE GOLD-UND SILBERSCHEIDEANSTALT VORMALS ROESSLER, of 9 Weissfrauenstrasse, Frankfurt (Main) F.R.G.	Process for the production of 3-methyl pyridine.
74.	147444	28-9-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Process for recovering solid particles of ammonium decavanadate from an aqueous solution thereof.
75.	147448	4-8-1978	HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE 165-166 Backbay Reclamation, Bombay-20, Maharashtra, India.	Process for improving colour & removing undesirable odour of soap.

RENEWAL FEES PAID

122104 123144 127436 127570 127626 127646 127649 128018
 128229 132312 132405 132591 132916 135477 135863 135995
 136248 136459 136703 138003 138037 138071 138328 138345
 138445 138446 139255 139874 139889 140075 140085 140163
 140257 140283 140404 140736 140906 141505 141763 141767
 142073 142107 142123 142538 142562 142724 142892 142912
 143072 143183 143233 143434 143480 143482 143606 143762
 143876 144002 144006 144118 144254 144741 144742 144793
 144852 145245 145299 145558 145441 145701 145863 146008
 146065 146191 146487 146507 146782 147271 147454 147767
 148148 148396 148491 148518 148762 148841 148845 148946
 148948 149510 149563 149715 149826 149938 150210 150616
 150626 150906 150920 151199 151266 151275 151382 151422
 151488 151538 151559 151567 151584 151585 151614 151790
 151842

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 154322. Press Metal Corporation Limited, a Company under the Indian Companies Act, at M. Vasanti Road, (Andheri-Kurla Road), Bombay-400 059, Maharashtra State, India. "Load Bearing Member". 16th April, 1984.

Class. 1. No. 154323. Press Metal Corporation Limited, an existing company under the Companies Act, at M. Vasanti Road, (Andheri-Kurla Road), Bombay-400 059, Maharashtra State, India. "Load Bearing Member". 16th April, 1984.

Class. 1. No. 154452. United States Surgical Corporation, a corporation of the State of New York, having its offices at 150 Glover Avenue, Norwalk, Connecticut-06850, U.S.A., "Surgical Occluding and Cutting Instrument". 26th May, 1984.

Class. 1. No. 154534. Peco Electronics and Electricals Ltd., of Ganeswar Estate, Block "A", Dr. Annie Besant Road, Worli, Bombay 18(WB), Maharashtra State, India, an India Company. "A Philips Quartz Alarm Clock". 22nd June, 1984.

Class. 3. No. 154542. Rajpal Plastic Industries, 303, Neelkonth, 98, Marine Drive, Bombay 400 002, Maharashtra State, Indian Partnership Firm. "Container". 26th June, 1984.

Class. 3. No. 154557. Ajwad Plastic Industries, A Registered Indian Partnership Firm of 17, Ganko Industrial Estate, 2nd Floor, Room No. 17, Ramchandra Lane, Malad (West), Bombay-400 064, State of Maharashtra. "Jug". 25th June, 1984.

Class. 3. No. 154453. United States Surgical Corporation, a corporation of the State of New York, having its offices at 150 Glover Avenue, Norwalk, Connecticut-06850, U.S.A., "Surgical Occluding and Cutting Instrument". 26th May, 1984.

Class. 3. No. 154296. Hongkong International, 52/37, Ramjas Road, Karol Bagh, New Delhi-110005, India, a partnership firm. "Children's Indoor Game". 16th April, 1984.

Class. 3. No. 153689. Minsky Motorny Zavod, of 220046, Minsk, Vauptshasova, 4, U.S.S.R., a national institution organised and existing under the laws of the Union of Soviet Socialist Republic. "Plastic Monocyclone". 19th November, 1983.

SHANTI KUMAR,
 Controller General of Patents,
 Designs and Trade Marks.

